

09-17-2003

In place of Form PTO-1595

F



Docket No. RSW920030104US1

102554156

To the Commissioner for Patents: Please record the attached original documents or copy thereof.

22141 U.S. PTO  
10/657941  
09/09/03

<b>1. Name of conveying party(ies):</b> (1) ERIK JOHN BURCKART (2) ARAVIND SRINIVASAN  Additional name(s) of conveying party(ies) attached? Yes <input checked="" type="checkbox"/> No	<b>Execution Date:</b> <u>09/09/03</u> <u>09/09/03</u>
<b>2. Name and address of receiving party(ies):</b>  International Business Machines Corporation New Orchard Road Armonk, New York 10504	<b>3. Nature of conveyance:</b>  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____

4. Application number(s) or patent number(s): 10657941

If this document is being filed together with a new application, the execution date of the application is:

(1) 09/09/03 (2) 09/09/03

A. Patent Application No.(s) \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_

5. Name and address of party to whom  
correspondence concerning document  
should be mailed:Duke W. Yee  
Carstens, Yee & Cahoon LLP.  
P.O. Box 802334  
Dallas, Texas 75380  
(972) 367-20016. Total number of applications and patents  
involved: 17. Total fee (37 CFR 3.41) \$ 40.00☐ Enclosed  
☒ Authorized to be charged to deposit account

8. Deposit account number:

09-0461

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Duke W. Yee  
Name of Person Signing  
Signature09/09/03  
Date

09/16/2003 LNUELLER 00000168 090461 10657941

01 FC:0021 40.00 DA

Total number of pages including cover sheet: 2PATENT  
REEL: 014488 FRAME: 0480

EXPRESS MAIL NO. EV333422384US

## A S S I G N M E N T

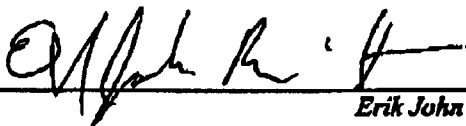
Whereas, we,

(1) Erik John Burckart  
County of Wakeof Raleigh  
and State of North Carolina

and

(2) Aravind Srinivasan  
County of Wakeof Raleigh  
and State of North Carolina

have invented certain improvements in

**MULTIDIMENSIONAL HASHED TREE BASED URL MATCHING ENGINE USING PROGRESSIVE  
HASHING**and executed, respectively, a United States patent application therefore on  
(Dates Inventors Signed Declaration) (1) September 9, 2003,  
(2) September 9, 2003.Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of  
New York, having a place of business at Armonk, New York 10504, (hereinafter  
called IBM), desires to acquire the entire right, title and interest in the  
said application and invention, and to any United States and foreign patents  
to be obtained therefore;Now therefore, for a valuable consideration, receipt whereof is hereby  
acknowledged, we, the above named, hereby sell, assign, and transfer to  
IBM, its successors and assigns, the entire right, title and interest in the  
said application and invention therein disclosed for the United States and  
foreign countries, and all rights of priority resulting from the filing of  
said United States application, and we request the Commissioner of Patents to  
issue any Letters Patent granted upon the invention set forth in said  
application to IBM, its successors and assigns; and we hereby agree that IBM  
may apply for foreign Letters Patent on said invention and we will execute  
all papers necessary in connection with the United States and foreign  
applications when called upon to do so by IBM.(1) Signed at Raleigh, NC on September 9, 2003.  
\_\_\_\_\_  
Erik John Burckartand (2) Signed at Raleigh NC on Sept 9, 2003.  
\_\_\_\_\_  
Aravind Srinivasan